

Air Force Scientific Advisory Board

Integrity - Service - Excellence

SAB Organization Overview

**Dr. Robert Selden, Chairman
USAF Scientific Advisory Board**



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SAB Charter



- **Provide independent technical advice to the Leadership of the Air Force**
- **Conduct studies assigned by the Secretary and Chief of Staff**
- **Recommend applications of technology to improve Air Force capabilities**
- **Review Air Force science and technology programs**
- **Provide technical advice to Air Force commands and other activities as needed**

The SAB is a link between the Air Force and the Nation's technical community



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The Beginning ...



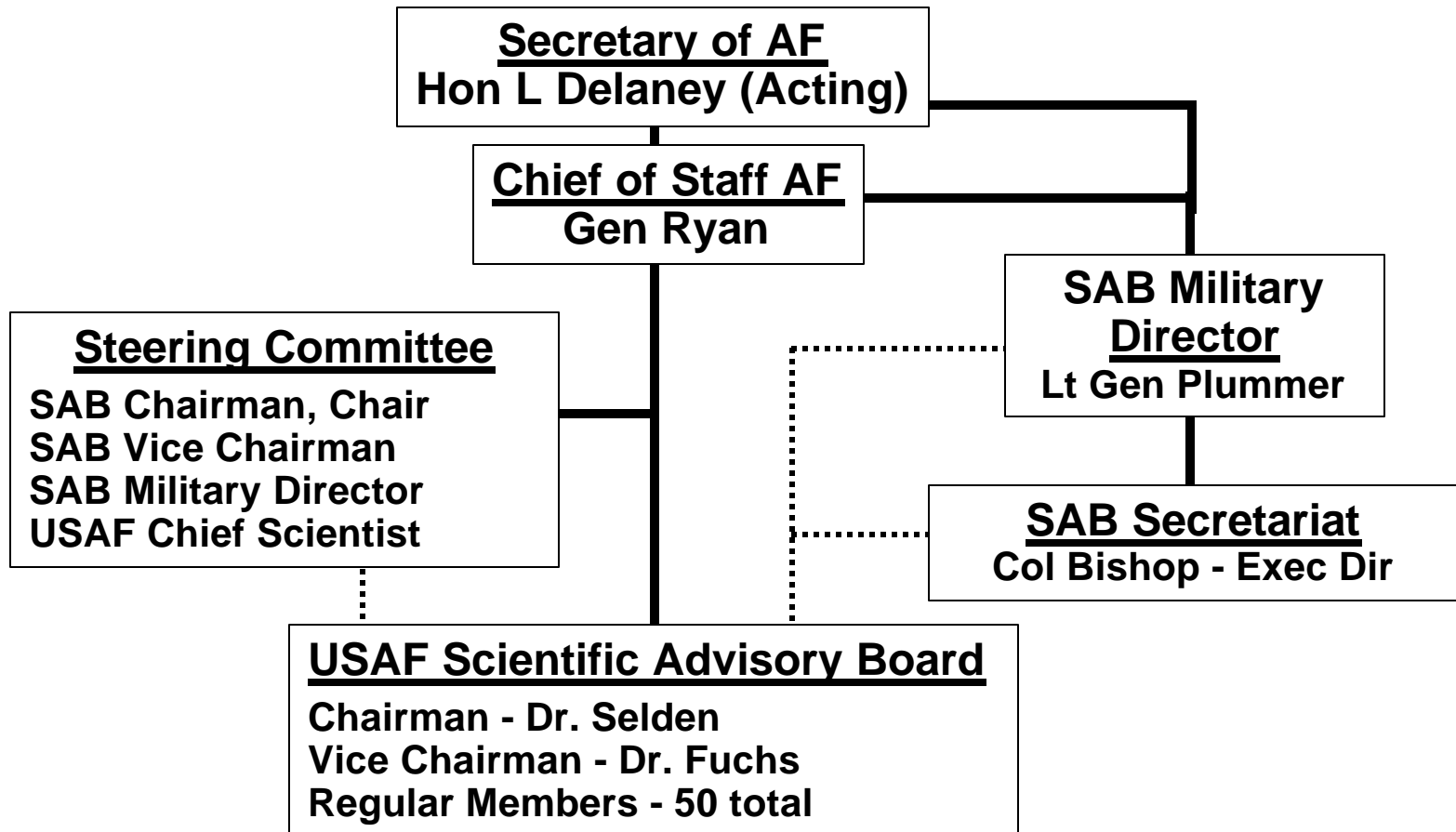
- **Scientific Advisory Group 1944 - 1946**
 - Organized and chaired by Dr. Theodore von Kármán
 - Provided long range forecast of R&D needs for Army Air Corp
 - Produced “Toward New Horizons”

- **Scientific Advisory Board 1947 - Present**
 - Part of Air Staff
 - Originally reported only to Chief of Staff
 - Now report to both Chief and Secretary
 - Conduct studies and provide independent technical advice
 - Provide ongoing reviews on quality of Air Force Science & Technology Program



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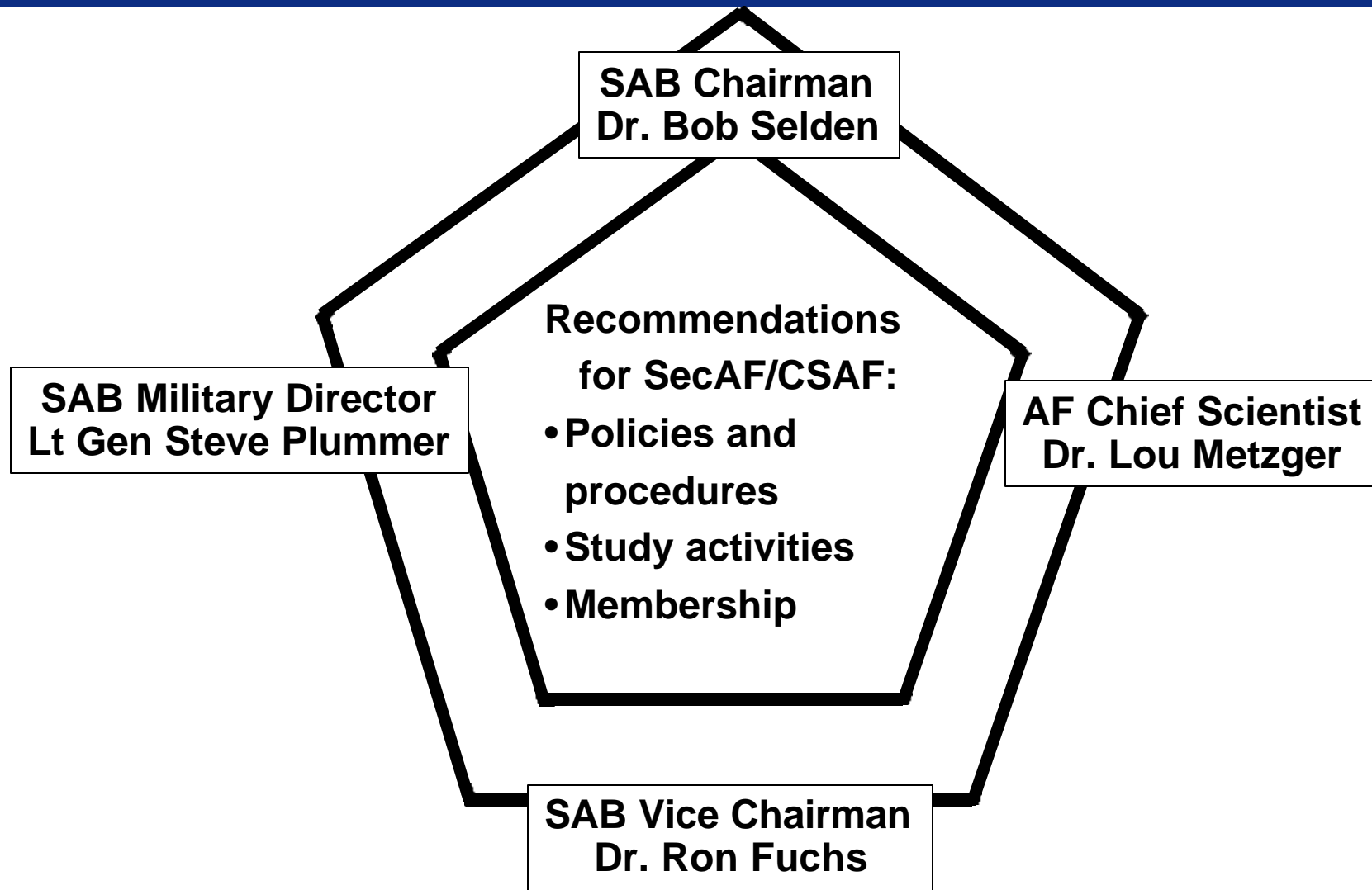
Organizational Relationships





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Steering Committee





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Members



- **Selected from the Nation's science and engineering communities**
- **Recognized expertise in disciplines that are of importance to the Air Force**
- **Drawn from universities, national laboratories and industry**
- **There are 50 Members**
 - **Two year appointment, with two year renewal**
 - **Must be U.S. Citizens & not Government employees**



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Major Efforts



■ Studies

- Summer, Ad Hoc, and Quick Look studies
- January – July

■ Science and Technology Quality Reviews

- Review half of AFRL each year
- October – December

■ Advisory Groups

- Groups convened at request of AF Commanders
- Each group meets 1 – 2 times each year



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Studies



- **1 Major Study (“Summer Study”) per year**
 - Formal report and large briefing trail
 - 9 - 12 month effort
 - 20 - 40 members, plus many others as required
- **1 to 2 Ad Hoc Studies per year**
 - Formal report and varied briefing trail
 - 6 - 9 month effort
 - 10 - 20 members, plus others as required
- **1 to 3 “Quick Look” Studies per year**
 - Letter report and few briefings
 - 1 - 3 short meetings
 - Small group



Science and Technology Quality Reviews



- Two year process to look at USAF S&T Portfolio
- Reviews “thrusters” across 9 technology directorates within Air Force Research Lab (AFRL)

FY01

Propulsion

Sensors

Space Vehicles

Special Programs

Directed Energy

FY02

Human Effectiveness

Munitions

Air Vehicles

Materials & Manufacturing

Information

Note: Basic Research included in each directorate review

- Outbrief to AFMC/CC, SAF/AQ, CSAF, SecAF, DDR&E



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Command Advisory Groups



- **AAC - Air Force Armament Center**
- **AC2ISRC - Air Force Command & Control Intelligence Surveillance and Reconnaissance Center**
- **AFOTEC - Air Force Operational Test and Evaluation Center**
- **AFSOC - Air Force Special Operations Command**
- **AIA - Air Force Intelligence Agency**



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Nominal Schedule



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Member Selection Process	↑						↑					
Study Selection Process				↑					↑			
Studies Fact Finding	↑					↑						
Studies Outbriefs & Publication									↑			↑
S&T Quality Review (AFRL)									↑			↑
SAB Board Meetings				↑		↑↑				↑		
				Spring		Summer				Fall		